

March 29, 2005 PN 14BP.01033.03.0630

Mr. Tom Shih Los Angeles Regional Water Quality Control Board 320 West 4th Street, Suite 200 Los Angeles, California 90013

RE:

Well Abandonment Report

ARCO Facility 01033

22661 Pacific Coast Highway

Malibu, California ID No. I-06026

Dear Mr. Shih:

SECOR International Incorporated (SECOR), on behalf of the Atlantic Richfield Company (Atlantic Richfield), documenting the destruction of the existing well network (Wells MW-1R though MW-3R, MW submits this report documenting the destruction of the existing well network (Wells MW-1R though MW-3R, MW-5 and MW-7 through MW-10) at the referenced site (Figure 1 and 2). This submittal is prepared in the response to the Los Angeles California Regional Water Quality Control Board (LACRWQCB) December 20, 2004 correspondence stating, "...that no further action related to the petroleum release(s) at the site is required." The LACRWQCB correspondence required Atlantic Richfield to submit a well (Appendix A) In a phone conversation conducted on abandonment report by March 15, 2005. March 14, 2005 between Ms. Cathy Sanford of SECOR and Mr. Tom Shih with the LACRWQCB, a two week extension to submit the report was requested and granted. The phone conversation is documented in SECOR's March 14, 2005 correspondence included in Appendix B. Field activities were completed on March 15, 2005 as the generated waste stream was properly disposed/recycled.

SCOPE OF WORK

Pre-Field Activities

A site-specific Health and Safety Plan (HASP) was prepared for use by SECOR personnel. The HASP addressed issues such as: clearing of above and below ground utilities prior to commencement of drilling operations, hospital location, and a subsurface clearance checklist. SECOR marked the proposed boring locations and notified Underground Service Alert (USA) (Ticket # A0470521) approximately one week in advance of the well abandonment date to clear well locations of potential subsurface utilities. SECOR also coordinated with Spectrum Geophysics of Burbank, California to investigate the subsurface conditions for possible obstructions not covered by USA and to determine if the well locations were clear for abandonment. All pre-field activities were conducted according to Atlantic Richfield's "Precautionary Procedures and Guidelines Document for Drilling, Subsurface Investigations and Remedial Construction Activities for GEM Retail Operations." Furthermore, prior to the implementation of field activities all appropriate well destruction permits were obtained from the Los Angeles County Department of Health Services (LACDHS) and the required encroachment Permit was obtained from the State of California Department of Transportation (DOT). Copies of the permits are provided as Appendix C.

Well Destruction Activities

On February 22 and March 9, 2005, SECOR supervised West Hazmat Drilling Corporation (West Hazmat) of Anaheim, California (C-57 554979) during for the destruction of Wells MW-1R through MW-10. All well destruction activities were conducted in accordance with LACDHS and DOT permit requirements and in accordance with the State of California Well Standards. Wells MW-1R, MW-2R, MW-3R, and MW-10 were hand cleared to five feet below ground surface (bgs) and pressure grouted through a tremie pipe with a voclay grout / Portland cement mixture from total depth of the well to five feet bgs. Once the cement-bentonite mixture stabilized, the upper five feet of the well casing was over-drilled and removed using 8-inch diameter hollow-stem auger. The boreholes were then capped with concrete and finished to match the existing ground surface. Well construction details are included in the Boring Logs provided as Appendix D.

Wells MW-7 and MW-9 were cleared using an air-knife to five feet bgs and pressure grouted through a tremie pipe with a voclay grout / Portland cement mixture from total depth of the wells to five feet bgs. Once the cement-bentonite mixture stabilized, the upper five feet of the well casing was over-drilled and removed using 8-inch diameter hollow-stem auger. Due to identified underground utilities that appear to have been installed after the wells, Wells MW-5 and MW-8 were pressure grouted through a tremie pipe with a voclay grout / Portland cement mixture from total depth of the wells to five feet below ground bgs. The boreholes were then capped with concrete and finished to with asphalt match the existing ground surface. A site plan with well destruction locations is provided as Figure 2.

Materials generated during field activities were temporarily stored on-site in labeled DOT approved 55-gallon steel drums. SECOR then coordinated with Belshire Environmental Incorporated (Belshire) services, under contract to Atlantic Richfield, to remove generated waste from the site. Drums were transported off-site by Belshire and taken to TPS Technologies Incorporated, an Atlantic Richfield approved and California State Certified disposal facility, in Adelanto, California.

STANDARD LIMITATIONS

All work was performed under the supervision of a registered geologist as defined in the Registered Geologist Act of the California Code of Regulations. The information contained in this report represents SECOR's professional opinions, and is based in part on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

If there are any questions regarding this submittal, please contact Ms. Cathy Sanford at (714) 379-3366 extension 276.

Sincerely,

SECOR International Incorporated

Prepared:

Eric Young

Environmental Scientist

Project Manager

Reviewed:

Cathy Sanford

Associate Geologist

Approved by:

Kelly C. Brown, RG 6714

Principal Geologist

--- 10/21/2

Attachments: Figure 1 - Site Location Map

Figure 2 – Site Plan with Former Well Locations

Appendix A - LACRWQCB's December 20, 2004 Correspondence Letter

Appendix B - SECOR's March 14, 2005 Correspondence Letter

Appendix C -Permits

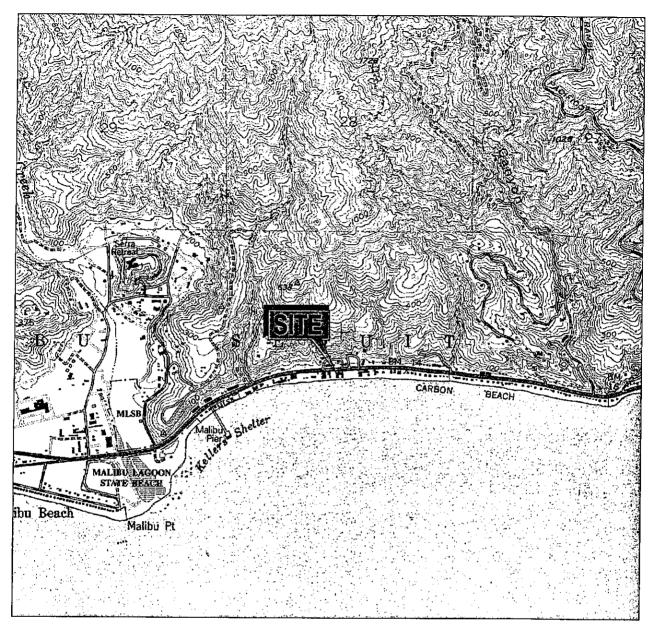
Appendix D - Boring Logs

cc:

Mr. Roy Thun, Atlantic Richfield Company

Mr. Don Dalbey, State of California, Department of Transportation

Mr. Rick Weintraub, Property Owner





QUADRANGLE LOCATION

NORTH

SCALE 1 inch = 2000 feet

1000 2000

REFERENCE: USGS 7.5 MINUTE QUADRANGLE; MALIBU QUADRANGLE, CALIFORNIA; REVISION DATE 1981



11085 KNOTT AVENUE, SUITE B CYPRESS, CALIFORNIA PHONE: (714)379-3356/FAX: (714)379-3375

PREPARED FOR: ATLANTIC RICHFIELD COMPANY FORMER ARCO FACILITY 1033 22661 PACIFIC COAST HIGHWAY MALIBU, CALIFORNIA

SITE LOCATION MAP

E. YOUNG

FIGURE:

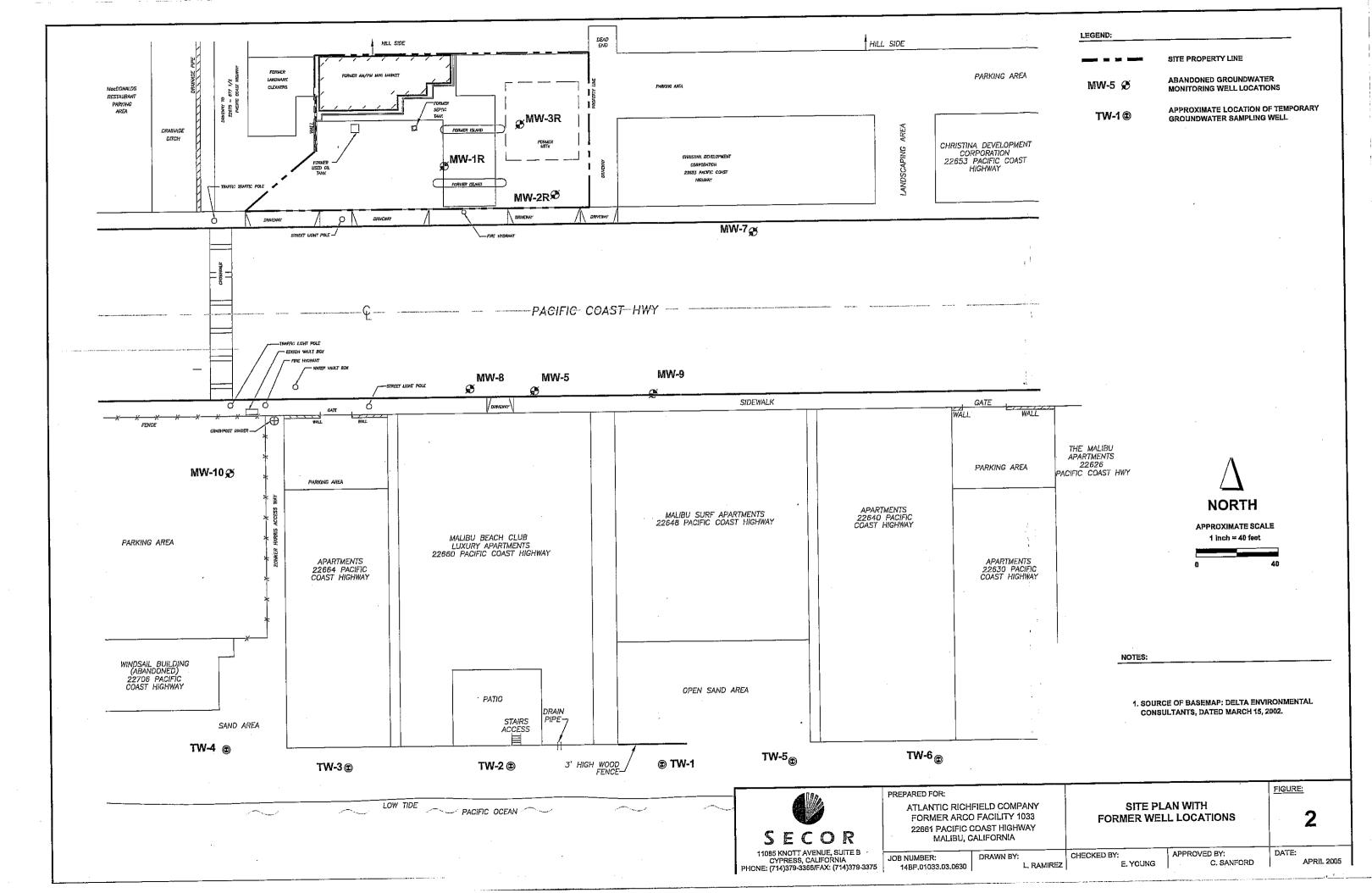
JOB NUMBER: 14BP.01033.03.0630 DRAWN BY: L. RAMIREZ CHECKED BY:

APPROVED BY:

C. SANFORD

DATE:

APR!L 2005



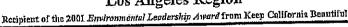
Appendix A

LACRWQCB's December 20, 2004 Correspondence Letter



California Regional Water Quality Control Board

Los Angeles Region





Dr. Alan Lloyd
Secretary for
Environmental
Protection

320 W. 4th Street, Suite 200, Los Angeles, California 90013

Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.waterboards.ca.gov/losangeles

Arnold Schwarzenegger
Governor

December 20, 2004

Mr. Roy Thun ARCO Products Company 4 Centerpointe Drive La Palma, CA 90623-0166

UNDERGROUND STORAGE TANK PROGRAM - CASE CLOSURE ARCO FACILITY NO. 1033 22661 PACIFIC COAST HIGHWAY, MALIBU (ID NO. I-06026) (CUFID NO. 3949)

This letter confirms the completion of a site investigation and corrective action for the underground storage tank(s) formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground tank(s) site is in compliance with the requirements of subdivision (a) and (b) of section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (g) of section 25296.10 of the Health and Safety Code.

If you have groundwater monitoring wells and/or vapor extraction wells at the subject property, you must comply with the following:

- All wells must be properly located and abandoned.
- Well abandonment permits and all other necessary permits must be obtained from the appropriate agencies prior to the start of work.
- You must submit a report on the abandonment of the wells to this office by March 15, 2005. This report must include, at a minimum, a site map, a description of the well abandonment process, and copies of all signed permits.

California Environmental Protection Agency

Please contact Dr. Tom Shih at (213) 576-6729 or e-mail him at tshih@waterboards.ca.gov if you have any questions regarding this matter.

Sincerely,

ORIGINAL SIGNED BY

Jonathan S. Bishop Executive Officer

Ms. Yvonne Shanks, State Water Resources Control Board, Underground Storage Tank Cleanup Fund

Ms. Nancy Matsumoto, Water Replenishment District of Southern California

Ms. Cathy Sanford, SECOR International, Inc.

Mr. Albert E. Strauss

Mr. Bruce A. Thabit Mr. Donald T. Sterling

Mr. Eugene Monkarsh

Mr. Jerrold Monkarsh

Mr. Alon Abady, Pacific Home Equities, LLC. Mr. Keith Milliken, Pacific Home Equities, LLC. Mr. Louis Heilbron, Weintraub Financial Services

California Environmental Protection Agency

Appendix B
SECOR's March 14, 2005 Correspondence Letter



March 15, 2005 14BP.01033.03.0636

Mr. Tom Shih California Regional Water Quality Control Board Los Angeles Region 320 West 4th Street, Suite 200 Los Angeles, California 90013

RE: Request for Due Date Extension

Well Abandonment Report
Former ARCO Facility 01033
22661 Pacific Coast Highway
Malibu, California
CRWQCBLA ID No. I-06026

Dear Mr. Shih:

SECOR International Incorporated (SECOR), on behalf of Atlantic Richfield Company (Atlantic Richfield), submits this letter documenting the March 14, 2005 telephone voicemail and email due date extension request submitted by Ms. Cathy Sanford of SECOR to Mr. Tom Shih of the California Regional Water Quality Control Board – Los Angeles Region (CRWQCB-LA). Specifically, SECOR requested a two week extension to submit the Well Abandonment Report due to the CRWQCB-LA on March 15, 2005 for the referenced site. The on site wells were abandoned on February 22, 2005 and the street well abandonment had to be postponed due to inclement weather as the Department of Transportation (DOT) permit did not allow street excavation during rain. As of March 8, 2005, all field work has been completed and the extended time is needed to receive the waste manifests and complete the reporting of field activities.

A telephone voicemail message received by SECOR on March 15, 2005 from Mr. Tom Shih of the CRWQCB-LA granted the report due date extension. SECOR hereby submits this letter documenting CRWQCB-LA's approval of an extension for the submittal of the Well Abandonment Report from the original March 15, 2005 due date to a due date of March 29, 2005.

Thank you for your help with this matter. If you have any questions regarding the contents of this submittal, please contact the undersigned at (714) 379-3366.

Respectfully submitted,

SECOR International Incorporated

Cathy Sanford Associate Geologist Project Manager

Cc:

Mr. Roy Thun, Atlantic Richfield Company.

Appendix C

Permits

<i>:</i> ;	r _k ≤ N	. <u> </u>					
STATE OF CALIFORNIA · DEPARTMENT ENCROACHMENT PERMIT	NT C RANSPORTATION	Per. o,					
TR-O12O (NEW 5/92)		705-6SV-0266					
In compliance with (check one):	· · · · · · · · · · · · · · · · · · ·	Dist/Co/Rte/PM 07-LA-001-46.37					
X Your application of Januar	y 31, 2005	Date February 2, 2005					
		Fee Paid \$ 410.00	Deposit \$				
Utility Notice No	of	Performance Bond Amou	int (1) Payment Bond Amount (2)				
Agreement No	of	S Bond Company	\$				
R/W Contract No.	of	Bond Number (1)	Bond Number (2)				
		Doil Attacks (c)					
TO:							
ATLANTIC RICHFIEL							
C/O SECOR INTERNA 11085 KNOTT AVENU	*	I					
CYPRESS, CA 90630)E, 5011E B	•					
ATTN: ERIC YOU	NG	, PERMITTEE					
PHONE: (714) 379-3	366 X234						
FOR THE PURPOSE OF PERFO WELLS (WELLS #5, 7, 8, & 9) II 22661 PACIFIC COAST HIGHW THE ATTACHED SPECIAL PRO PERMITTEE SHALL CONTAC A.M., AT TELEPHONE NO. (8 TO ARRANGE A PRE-JOB MI CLOSURE OR OTHER POTEN	RMING TRAFFIC CONTRO NSTALLED UNDER ENCRO AY; ALL IN ACCORDANC OVISIONS, AND PERMIT P CT STATE INSPECTOR M 05) 654-4508, A MINIMUM EETING. A CONFIRMATI NTIAL TRAFFIC IMPACT		CISTING MONITORING 5 & 700-6SV-2697, NEAR NDARD SPECIFICATIONS, HOURS OF 7 A.M. AND 9 TIAL START OF WORK R THREE DAYS PRIOR TO				
PERFORMED BY STATE FORCES OR UNDER CO	NTRACT IN THE EVENT THAT THE PERM	REIMBURSE THE STATE FOR ANY AND ALL COSTS INC HITTEE, HIS CONTRACTOR OR SUBCONTRACTOR FAIL TO N OF THE HIGHWAY AND SATISFACTORY COMPLETION O	OF ALL PERMIT WORK. IT IS UNDERSTOOD				
THAT THE ABOVE CHARGES ARE IN ADDITION? The following attachments are also include (Check applicable):	O ANY PERMIT FEES AND THAT THE PER	MITTEE WILL BE BILLED FOR SAID CHARGES AF IER SAIT	SFACTORY COMPLETION OF ALL WORK. ition to fee the permittee will be actual costs for:				
X Yes Genera	d Provisions	x	Yes No Review				
·	Maintenance Provisions	X					
	Provisions A, B, C, Q, & Stormwate		Yes No Field Work				
Yes X No A Cal-C	OSHA permit required prior to begin		Caltrans effort Extended)				
Yes X No The infor	mation in the environmental docume	entation has been reviewed and considered prior to	approval of this permit,				
This permit is void unless the wor This permit is to be strictly construed and no No project work shall be commenced until all	other work than specifically mentioned	I is hereby authorized,					
WEST REGION		APPROVED:	•				
LAS FLORES DALBEY, INSP							
		Hector Obeso, District Permit Engin By:	eer				
		1 / W 1 / /	•				
		AT AND AVIS Permit Engineer					

705-6SV-0266 ATLANTIC RICHFIELD COMPANY C/O SECOR INTERNATIONAL, INC. Page 2 of 3

SPECIAL PROVISIONS:

- 1. SHOULD THERE BE ANY DISCREPANCY BETWEEN THE TERMS OF THIS PERMIT AND THE PLANS ATTACHED HERETO, THE TERMS OF THIS PERMIT SHALL PREVAIL.
- 2. AS DIRECTED BY THE STATE PERMIT INSPECTOR, ALL TRAFFIC CONTROL DEVICES SHALL BE SET AND MAINTAINED BY A LICENSED TRAFFIC CONTROL CONTRACTOR.
- 3. Prior to performing any work pursuant to this permit, the permittee shall obtain all necessary permits and authorizations required of other governmental agencies such as the Environmental Protection Agencies. The permittee shall make the necessary arrangements to ensure that said work and testing are monitored by the appropriate agencies and performed in accordance with the requirements of those agencies.
- 4. At completion of abandonment, a copy of all records concerning the abandonment of the wells shall be submitted to the state Permit Inspector.
- 5. Wells and other related appurtenances shall be removed and abandoned in accordance with the attached sheets No.s 50 thru 54 of the California Department of Water Resources Bulletin "California Well Standard" No. 74-90 dated June 1991, which is made part of this permit.
- 6. As directed by the State Permit Inspector, the State right-of-way shall be restored to its former condition.

 Damaged curb, gutter, or sidewalk shall be removed and replaced to the nearest score marks beyond the location of the abandoned well.
- 7. It is the Permittee's responsibility to ensure that no pollutants whatsoever are allowed to enter into the State right-of-way or contaminate the environment due to any effects which may occur as a result of the implementation of this permit.
- 8. All traffic control requiring lane closures, shall be in accordance with the attached Lane Closure on Pacific Coast Highway Policy, unless otherwise approved by the State Permit Inspector.
- 9. All traffic control and traffic control devices shall be provided by the Permittee in accordance with the Manual on Uniform Traffic Control Devices 2003 and the California Supplement and shall be subject to the approval of the State Permit Inspector.
- 10. All lane closures on multilane highways within State right-of-way shall be made using an approved flashing arrow sign. The State Inspector shall close down any project found to have such a lane closure without the required flashing arrow signs.
- 11. A minimum of two days prior to the start of any excavation authorized by this Permit, Permittee shall notify UNDERGROUND SERVICE ALERT at 1-800-422-4133.
- 12. Care shall be exercised at all times to protect existing State facilities. Any damage resulting from work of this permit shall be repaired immediately by Permittee to the satisfaction of the State Permit Inspector at no cost to the State.
- 13. Pedestrian traffic shall be protected at all times.
- 14. No work shall begin on this permit until a complete understanding has been reached with the State Permit Inspector regarding the work and all aspects of traffic control.
- 15. All work performed pursuant to this permit shall be subject to the approval and authority of the State Permit Inspector.
- 16. Safety vests and hard hats shall be worn at all times while working within State Highway right-of-way.

705-6SV-0266 ATLANTIC RICHFIELD COMPANY C/O SECOR INTERNATIONAL, INC. Page 3 of 3

17. Permittee or Permittee's contractor is required to have the signed original permit or copies with all special provisions, at the job site at all times while work is being conducted. Work shall be suspended if permit is not at jobsite.

"BY ACCEPTANCE OF THIS PERMIT, THE PERMITTEE UNDERSTANDS AND AGREES TO REIMBURSE THE STATE FOR ANY AND ALL COSTS INCURRED FOR HAVING CORRECTIVE WORK PERFORMED BY STATE FORCES OR UNDER CONTRACT IN THE EVENT THAT THE PERMITTEE, HIS CONTRACTOR OR SUBCONTRACTOR FAILS TO INSTALL, REPLACE, REPAIR, RESTORE OR REMOVE FACILITIES TO STATE SPECIFICATIONS FOR THE IMMEDIATE SAFE OPERATION OF THE HIGHWAY AND SATISFACTORY COMPLETION OF ALL PERMIT WORK.

IT IS UNDERSTOOD THAT THE ABOVE CHARGES ARE IN ADDITION TO ANY PERMIT FEES AND THAT THE PERMITTEE WILL BE BILLED FOR SAID CHARGES AFTER SATISFACTORY COMPLETION OF ALL PERMIT WORK "

Permittee, his agents or contractors are bound by and shall comply with all provisions of this permit and the instructions of the State representative while performing any work authorized by this permit.

WORK SHALL BE SUSPENDED IF PERMIT COPY IS NOT AT JOB SITE.

IMMEDIATELY FOLLOWING COMPLETION OF THE WORK PERMITTED HEREIN, THE PERMITTEE SHALL FILL OUT AND MAIL THE NOTICE OF COMPLETION ATTACHED TO THIS PERMIT.

The attached District Standard Special Provisions are generalizations of the Department Standard Specifications and are included only as a Permittee convenience. Permittee's attention is directed to the current Department Standard Specifications for complete, unabridged, Specification requirements.

WAT		PLICATION - MON-ERODO INTAIN & RURAL PROGRAMS - ENTRONMENTA BALDWIN FARK, CA 91706 (626) 430-5380 FAX (6.		DATE;				
I N		TON OR RENOVATION CONTROL IN	ONITORING ATHODIC JECTION KTRACTION	HEAT EXCHANGE OTHER (Specify);				
χō	SITE ADDRESS	661 PACIFIC COAST HIGHWAY MALE		Zil- CODE				
WELLLOCATION	Township	Range	Section Map Book Page/ Grid					
REL	NO. OF WELLS IN	each parcel: 8	Aftach site map with well	locations				
PA.	Type and Size of Production Cosing	4" CASINC	Company	SECOR INTERNATIONAL INC.				
WELL STRUCTURE	Sanitary / Annular		Contact Person	Epic BONG 11005 KNOTT AVE., SUTTE B				
E .	Boaling Material	BEWNITE	Address	11005 KNOTT AVE. SUITE B				
WELL	Depth of Sanitary / Annular Seal	VAZIAB/E	City, State Zip	CYPRESS; CA. 90630				
·	Conductor Casing Scal	BETONITE	Telephone IF WELL AND GEOL	OGIC CONDITIONS ENCOUNTERING IN THE FIELD ARE				
	Well Owner	ATLANTIC RICHTIELD	7 FOUND TO DIFFIGR 8	FROM THE SCOPE OF WORK PRESENTED TO THIS OFFICE, FICATIONS MAY BE REQUIRED				
OWRER / DEILLER INFORMATION	Address	4 CENTERPONTE PRIVE	Dis	SPOSITION OF PERMIT (Department Use Only)				
ORAY	City / Zip Code	LA PAINA / 90623	THIS PERMIT IS CONSIDERED COMPLETE WHEN THE WORK PLAN IS APPROVED AND WHEN THE WELL COMPLETION LOG IS RECEIVED. NO WELL CONSTRUCTION OR DECOMMISSIONING CAN BE INITIATED WITHOUT THE WORK PLAN APPROVAL FROM THIS DEPARTMENT.					
E E	Telephone	(818) 957-1755						
FILLE	Well Driller	COREPRORE INTERMOTIONAL INC.		WORK PLAN APPROVAL				
RH / DI	Address	1442 ARDOW HICHWAY STE.N	This Approval is Valid for 180 Days					
OWR	City / Zip Code	IREMPALE / 91706	Date 1-20-2005 REIIS Complete 1					
	C-57 License No.	C-57 - 772519	Conditions	R.E.H.S TATE				
	Telephone	(626) 805-9176	<u> </u>					
	Well Depth log / records	18.50- 24.40		ARNOLD FIELDING, R.E.H.S., M.S. Environmental Health Specialist III				
NRNG	Nicthod of Woll Assessment	PRESSURE CIRCUT & DEAL UPPER S'	- Curon	ENVIRONMENTAL HEALTH BUREAU OF ENVIRONMENTAL PROTECTION				
MKKSBJO	Depth and Number of Perforations	MARIABIC	COUNTY OF					
WILL DECOMBISSIONING	Type of Perforator Size of Perforations	VARIABLE (0.02 INCH)	DEPARTMENT (E8				
W.T.	Type and Amount of Scalant	VARIANIE (BETONITE)	PUBLIC HEALT					
_	Method of Upper Scal	BETOKITE CAROUT						
Courtie Conswell well Heal well	nty Environmental He County of Los Augoles truction, reconstructioned within thirty days and within thirty days the office with a coupli	TO FOR SECUR INT- INC.	Date The well log must be	FINAL INSPECTION REHS PERMIT ISSUED. c submitted to this Department prior to issuance of the final approval				
	leant Name: (PRINT)	Applicant's Signature	Date	Rings				

76A668-A N-13 (Rey, 01/2001) Appendix D

Boring Logs

SECOR

Logged By: Date I	Orilled:	D.	rilling C West H Dril	onuacior azmai	populacion ARCO No. 1033 ARCO No. 1033 ARCO No. 1033 ARCO No. 1033 CME-75						puractor Project Name: ARCO No. 1033 ARCO No. 1033 CME-75		Boring N	IR_
See "Legend to Loge" for sampling method, classifications and labor	ıΓ	Bori Diam. 8	ing (in.):	Surface Groundwater Depth (fL): Total Depth (fL): Wt.(lbs.): Elev.(fL): \$\Times\$ 11 First Encountered \$\Times\$ 21.5 140					Di	Drop sl.(in.): 30				
esting methods Well Construction	Depth, (ft.)	Sample Interval	Blow Counts 6"			Description			Sample Method/ Sample type	PID/FID Reading (ppm)				
Well Cover Cement Hydrated Bentonite Chip Seal No. 2/16 Sand Pack	5—		9 14 18	l-1-1-1 4/2	.), sligh	RADED SAND (SW): Artific tly moist, dense, fine to coarse on odor	ial fill, brown (7. grained, moderat	TYR t	MC E	2,596				
2" Sch 40	₹10-		10 15 18		BTSC-RIZ	(GW): Artificial fill, dark grained sand with approximately one odor	ay (5YR 4/1), we 90% gravel, sügi	t, dense, it	MC E	1,200				
PVC 0.010" Slotted Well Screen	15-		16 24 30	A CALL W	VELL, Cown (7	FRADED SAND WITH GRA 5YR 4/4), very moist, dense, i roximately 20% gravel, strong	VEL (SW): Art fine to coarse-gra hydrocarbon odo:	ificial fill, ined sand	MC E	>9,99!				
End Cap	20	1	15 22 28		rown () vith app SAMPI MC = M	GRADED SAND WITH GR 7.5YR 4/4), very moist, dense, proximately 25% gravel, hydro Total Depth = 21.5 E METHOD (odified California Split Spoor E TYPE	reet bgs	rificial fill, ined sand	MC B	3,500				

The substrata descriptions above are generalized representations and based upon visual/manual classification of cuttings and/or samples obtained during drilling. Predominant material types shown on the log may contain different materials and the change from one predominant material type to another could be different than indicated. Descriptions on this log apply only at the specific location at the time of drilling and may not be representative of subsurface conditions at other locations or times.

Project No. 37BP.01033.01.0146 Date MARCH 2003	Log of Bornig
Project No. 27DX:020000000	Approved by
A1033.GPI LOG OF BOREHOLE	Figure (sheet-1-of-1)

CIT	7/	$\langle \cap \rangle$	7
\square T	__	\sim	7.

Fand hery 2/24/05 See "Legend to Logs" for	Dri Boring	Surface	Project Name: ARCO No. 1633 Pacific Coast Hwy., Malibu, CA Groundwater Depth (ft.): \$\sqrt{10.5}\$ First Encountered	Depth (ft.): wi.(rive Dist	1.
ampling method, lassifications and laboratory esting methods	Diam.(in.): B	Blev.(ft.):	Slev.(it.): ¥10.5 First isneountered 21.5 140			
Well (1) the Construction (2)	Sample Interval Blow Counts 6"		Description		Sample Method/ Sample type	PID/FID Reading (ppm)
Well Cover Cement Hydrated Bentonite Chip Seal No. 2/16 Sand Pack	7 10 11 11 9 12 16 -	5/2), mois odor WELL G	Y GRADED SAND (SP); Artist, medium density, fine-grained st, medium density, fine-grained states and second states are second se	Tran (CVX). Artificial f	12	4,300 >9,999
PVC 0.010" Slotted Well Screen	5 10 16 22		GRADED SAND WITH GR. k grayish brown (2.5YR 3/2), r trained, moderate hydrocarbon		fil, MC	6,948
End Cap 2	10 10	very da slight b SAMP MC=1	GRADED SAND WITH GR rk gray (2.5YR 3/1), moist, der ydrocarbon odor Total Depth = 21 LE METHOD Modified California Split Spoot LE TYPE core	Feet bgs	fill, MC	1,907

The substrata descriptions above are generalized representations and based upon visual/manual classification of cuttings and/or samples obtained during drilling. Predominant material types shown on the log may contain different materials and the change from one predominant material type to another could be different than indicated. Descriptions on this log apply only at the specific location at the time of drilling and may not be representative of subsurface conditions at other locations or times.

Project No. 37BP.01033.01.0146 Date	MARCH 2003	Tog of Round
Project No. 3/BP.01055.01.0146 220		Approved by
A1033.GPI LOG OF BOREHOLE		Figure (sheet 1 of 1).

SECOR

emalional Incorporated ogged By: Date Drilled	West Hazmat	Project Name: ARCO No. 1033 22661 Pacific Coast Hwy., Malibu, CA	Method/Equipment: Mod. CA. Split Spoon CME-75	Boring Nur	3R
Handbury 2/24/03 E "Legend to Logs" for mpling method, assifications and laboratory	Boring Surface Diam.(in.): Blev.(fr	ce Groundwater Depth (fL):	Total Drive wL(ibs 21.5 140	i.): Dist	rop .(in.): 30
Well Construction	Sample Interval	Description	:	Sample Method/ Sample type	PID/FID Reading (ppin)
No. 2/16 Sand Pack 2" Sch 40 PVC 0.010" Slotted Well Screen	12 4/3 4/3 18 0dd	OORLY GRADED SAND (SP): Article (SP): Articl	AVEL (SW): Artificial fill fine to coarse-grained with bon odor AVEL (SW): Artificial fill fine to coarse-grained sand drocarbon odor, tank pit clear of the coarse sand with arbon odor.	MC E	0.0

The substrata descriptions above are generalized representations and based upon visual/manual classification of cuttings and/or samples obtained during drilling. Predominant material types shown on the log may contain different materials and the change from one predominant material type to another could be different than indicated. Descriptions on this log apply only at the specific location at the time of drilling and may not be representative of subsurface conditions at other locations or times.

Project No. 37BP.01033.01.0145 Date MARCH 2003	Log of Coring Approved by
A1033.GPJ LOG OFBOREMOLE	Figure (sheet 1-of 1)

DRILLING & LITHOLOGIC LOG

Well/Boring #MW5

		<u></u>	Owner: Arco Petroleum Products, Inc.			
Project: Arc/22661 Pacific C	coast Highway		Project Number: 021501810			
Location: Malibu, CA			Total Depth of Boring (feet): 20 Diameter (inches): 7			
Date Drilled: August 11, 1992			Total Depart of Land Vision			
Surface Elevation AMSL (feet			Total Depth of Well (feet): 20			
Depth-to-Water at Time of Dr	illing (feet): 10		24-Hour Water Level (feet): N/A			
Screen Diameter (inches): 2	2		Length (feet): 15 Slot Size (inches): 0.01			
Casing Diameter (inches): 2	2		Length (feet): 5 Type: Schedule 40 PVC			
Drilling Company: A & R Dri	illing, Inc.	-	Drilling Method: Hollow Stem Auger			
Sample Type: Mod. Calif. Sp	plit Spoon (3-6*	Brass Rings)	Core Sample Diameter (inches): 1.5			
Core Sample Condition Lege	and:	disturbed Disturbed	Elevation Symbols: Groundwater Perched Free Product			
Driller: Steve Kosner		Log By: Doug Fo	ord Checked By: Lany Hightham 8-67			
Well ⊊	Samples	ws phlc og Symbol				
eepth Feet)	Number oo	Blows Graphic Log USCS Symb	Description			
5 30	MW5-5	4 SP	9:30 am 5 inches of double layered Asphalt at grade. Road Base under Asphalt. SILT with Gravel at one foot: Brown, about 75% Silt, about 15% fine to coarse Gravel, about 10% coarse Sand. Poorly graded SAND: Light brown, about 95% fine, subangular, quartz Sand, about 5% medium Sand; medium dense, moist, no hydrocarbon odor. Poorly graded SAND: Light brown, about 95% fine Sand, about 5% medium Sand; dense, wet to saturated at 10 feet, faint hydrocarbon odor. Poorly graded SAND: Gray-brown, about 50% fine Sand, about 30% medium Sand, about 10% coarse Sand, about 10% fine to coarse Gravel; medium dense, water saturated, no hydrocarbon odor. Decreasing auger speed, cobbles and large gravel, first encountered at 16.5 feet. 10:50 am			

9.	GROUNDWATER TECHNOLOGY, INC. 20000/200 Mariner Avenue • Torrance, California 90503 • (310) 371-1394 GROUNDWATER	
September 21, 1992	Drawn By: GTI (b) Page: 1 of 2 TECHNOLOGY, INC	Э.

DRILLING & LITHOLOGIC LOG

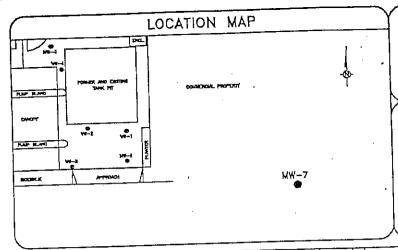
Well/Boring #MW5

Locatio	ın: N			ic Coast High					Project Number: 021501810
		ell l		Samp	les		ပ	loqu	
Depth (Feet)	Pipe	E E	PID (PPM)	Number	Condition	Віожв	Graphic Log	USCS Symbol	Description
20		• • •				-	<u> </u>		End of drilling at 20 feet. Soil sampled to 16.5 feet. Groundwater first encountered at 10 feet. Soil cuttings placed in labeled 55-gallon drums, sealed, and stored on site. Borehole converted to groundwater monitoring well.
30 -									
35	1								
40									
45 — — — — — —									

Page: 2 of 2

Drawn By: GTI (b)

Date: September 14, 1992



LOG OF BORING MW-7

ARCO SERVICE STATION NO.1033 22661 W. PACIFIC COAST HIGHWAY MALIBU, CALIFORNIA

PROJECT NO .:

000059.001

LOGGED BY:

N. Molla

DRILLING CO.:

Drill-Line

DRILLED DATE:

march 10, 1994

DRILLING METHOD:

Hollow Stem Auger

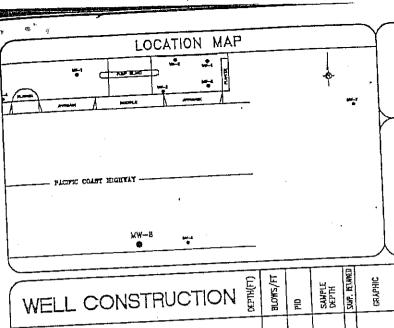
SAMPLING METHOD:

Split Spoon

INCLINATION:

Vertical

WELL CONSTRUCTION	DEPTH(FT)	BLOWS/FT	먑	SAMPLE	SUPP, RETAINED	GRAPHIC	LITHOLOGIC DESCRIPTION
10-IN BORING FLUSH MOUNT W/WELL BOX	_						DIRT SURFACE CONDITIONS
LOCKING WATER TIGHT CAP	-0-	!					SAND (SP) light brown; very fine-grained, medium dense, moist; crumbly; little angular pebbles
BENTONITE CHIP	-	8					•
WELL CASING, 4 INCH DIA PVC SCH. 40	5 —	8 10 18	400				
	_						— becames greenish gray; medium—grained; moist to wet
WELL SCREEN 4-INCH DIA PVC 010 SLOT	-	11 14 15	600				
10	10 —						
SAND PACK \$3							
- 15	15	- - - 1	>100	20			becomes light gray
		7					
	25	-	>10	000			increasing coarse grained sand and sub-rounded to sub-angular pebbles
BOTTOM OF BORING	20 -						BOTTOM OF BORING AT 20 FEET
		1					
- 25	25	-					
• •							
- [~-			,			
- 30 -	30	,					



G MILLER, INC. One Technology Drive, Suite F213

LOG OF BORING MW-8

ARCO SERVICE STATION NO.1033 22661 W. PACIFIC COAST HIGHWAY MALIBU, CALIFORNIA

000059.001 PROJECT NO .: N. Molla LOGGED BY: Drill-Line DRILLING CO.:

march 10, 1994 DRILLED DATE: Hollow Stem Auger DRILLING METHOD:

SAMPLING METHOD:

Split Spoon

INCLINATION:

Vertical

WELL CONSTRUCTION &	BLOWS/FT	댒	SAWPLE	SUM, ETUMID	LITHOLOGIC DESCRIPTION
10-IN BORING FLUSH MOUNT W/WELL BOX]			-57&-57	DIRT SURFACE CONDITIONS SAND (SW) light brown, fine to coorse grained; medium dense; SAND (SW) light brown, fine to coorse grained; medium dense;
LOCKING WATER TIGHT CAP CONCRETE					SAND (SW) light brown, the to control growth moist; well sorted; sub-rounded; occasional pebble
BENTONITE CHIP WELL CASING, 4 INCH DIA PVC SCH. 40	5 - 8 10	45			
5 -	- `` -				
WELL SCREEN 4-INCH	- 69	800			because wet at approximatly 10 feet
- 10 DU PVC .010 SLOT	13	5			Pecquee wer or approximately
SAND PACK 13	1	-			
- 15 H	5 —	В!	5		
	4				
		Б	50		AT ON FEET
BOTTOM OF BORING	20 -				BOTTOM OF BORING AT 20 FEET
	1				
- 25	25				
	_				
- 30	- 08		1		
— su		1			

DISK NO.: GMIROD18

